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# Coding Boot Camp



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# Session : Core06

Unexpected Randomness





# About Lilané le Grange



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Coding Boot Camp 2022

- Teacher at Rand Park High School in Johannesburg, South Africa
- Studied BSc Mathematics and Computer Science
- Author of Dandel10n Delphi Books
- Teaching programming is my job, passion and hobby
- Motto: Flower where you fall!
- Love all of Africa especially the bushveld



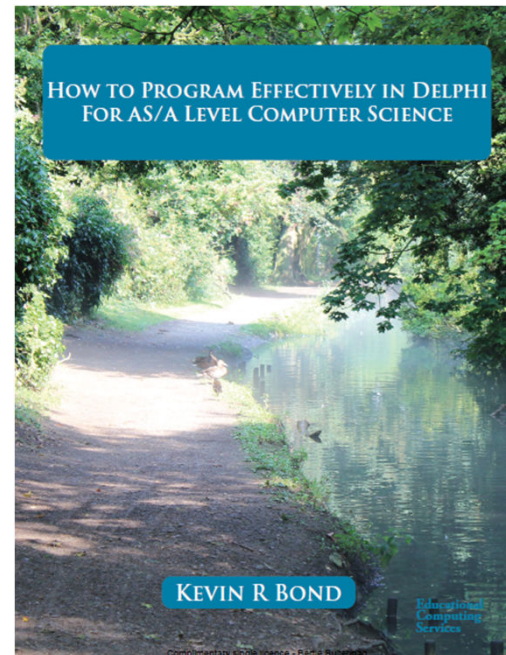
# Session outline



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- Random Integers
- Random Real numbers
- Random Colours
- Random Characters

Textbook reference chapters



Chapter 12





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For small values of  $N$  simple mechanisms exist.

For example:

- for  $N = 2$  we can toss a coin
- for  $N = 6$  we can roll a die - *Fig. 12.1*
- for  $N = 12$  we can roll a 12-sided die
- for  $N = 36$  we can use a roulette wheel.

## Key principle

### Randomness:

Randomness means lack of pattern or predictability of events.



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RandomLesson

\_\_history

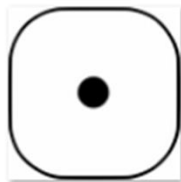
\_\_recovery

Win32

Debug



✓ dice.png



✓ dice1.png



✓ dice2.png



✓ dice3.png



✓ dice4.png

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Code in decimal	Character	Code in decimal	Character	Code in decimal	Character	Code in decimal	Character
32	Space	56	8	80	P	104	h
33	!	57	9	81	Q	105	i
34	"	58	:	82	R	106	j
35	#	59	;	83	S	107	k
36	\$	60	<	84	T	108	l
37	%	61	=	85	U	109	m
38	&	62	>	86	V	110	n
39	'	63	?	87	W	111	o
40	(	64	@	88	X	112	p
41	)	65	A	89	Y	113	q
42	*	66	B	90	Z	114	r
43	+	67	C	91	[	115	s
44	,	68	D	92	\	116	t
45	-	69	E	93	]	117	u
46	.	70	F	94	^	118	v
47	/	71	G	95	_	119	w
48	0	72	H	96	`	120	x
49	1	73	I	97	a	121	y
50	2	74	J	98	b	122	z
51	3	75	K	99	c	123	{
52	4	76	L	100	d	124	
53	5	77	M	101	e	125	}
54	6	78	N	102	f	126	~
55	7	79	O	103	g	127	DEL

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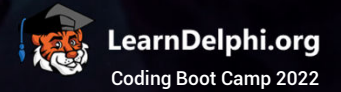
# Dandel10n Delphi

YouTube

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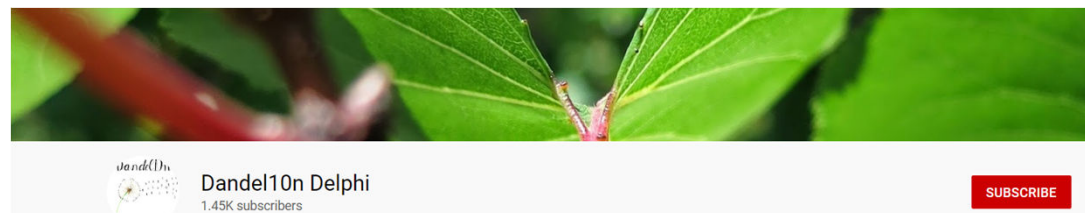
# Resources



<https://www.youtube.com/c/DelphiSchoolsDelphiProgrammingTutorials>



<https://www.youtube.com/channel/UCPQG0dcSGvOP20NLcjnYTPQ>



<https://www.youtube.com/channel/UCITMwGlsiKgY5Z-F5ZaCH4w/videos>







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# Thank you!



Get the code:  
[github.com/Embarcadero/CodingBootCamp2022](https://github.com/Embarcadero/CodingBootCamp2022)

